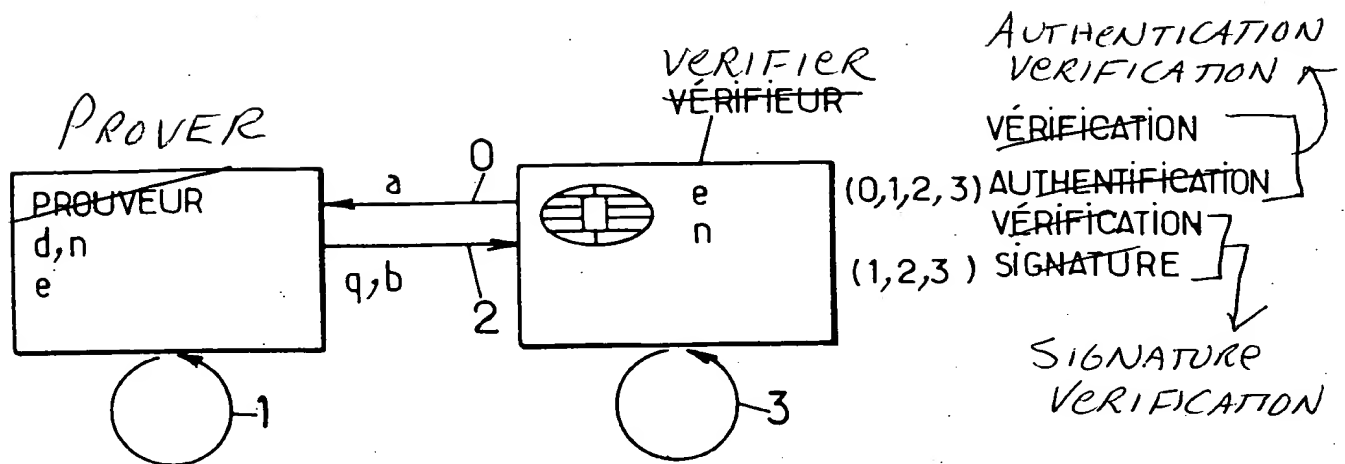


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$$q = a * b / n$$

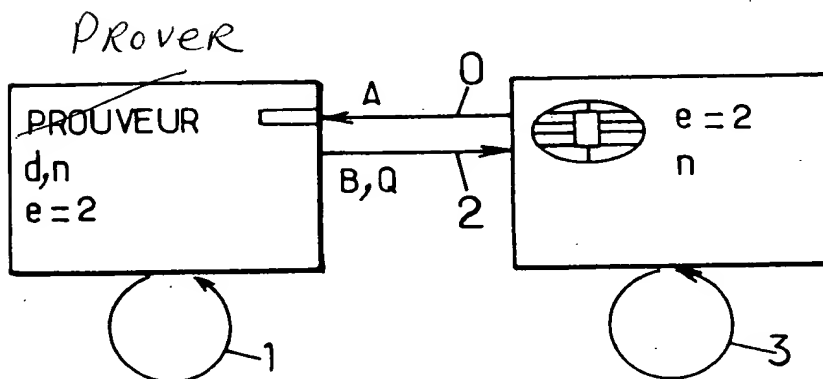
$$b = \begin{cases} a^d \bmod n & \text{if } (0,1,2,3) \\ S = S_d(M) & \text{if } (1,2,3) \end{cases}$$

$$a * b$$

$$q * n$$

$$a * b - q * n$$

FIG.1.



$$R = B = A^d \bmod n$$

$$Q = B * B / n$$

$$D_{AR} = B * B - Q * n$$

$$D_{AR} = A$$

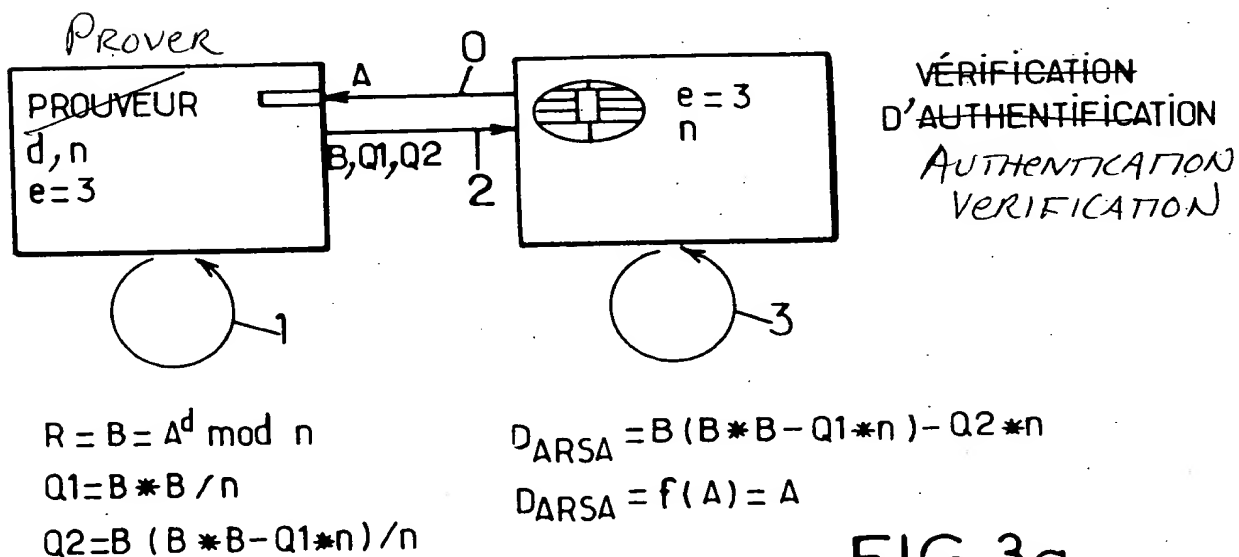
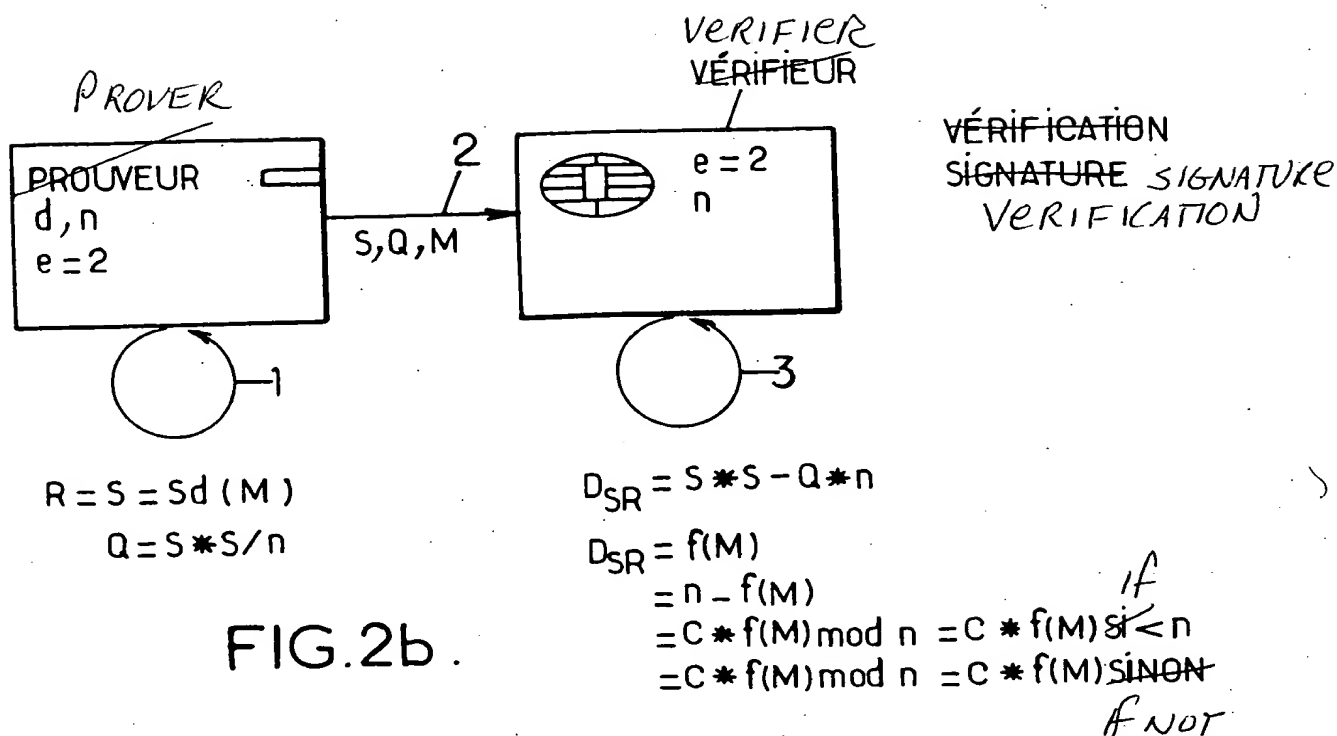
$$D_{AR} = n - A$$

$$D_{AR} = C * A \bmod n \quad \text{IF } C * A < n$$

$$D_{AR} = -C * A \bmod n \quad \text{IF NOT}$$

FIG. 2a.

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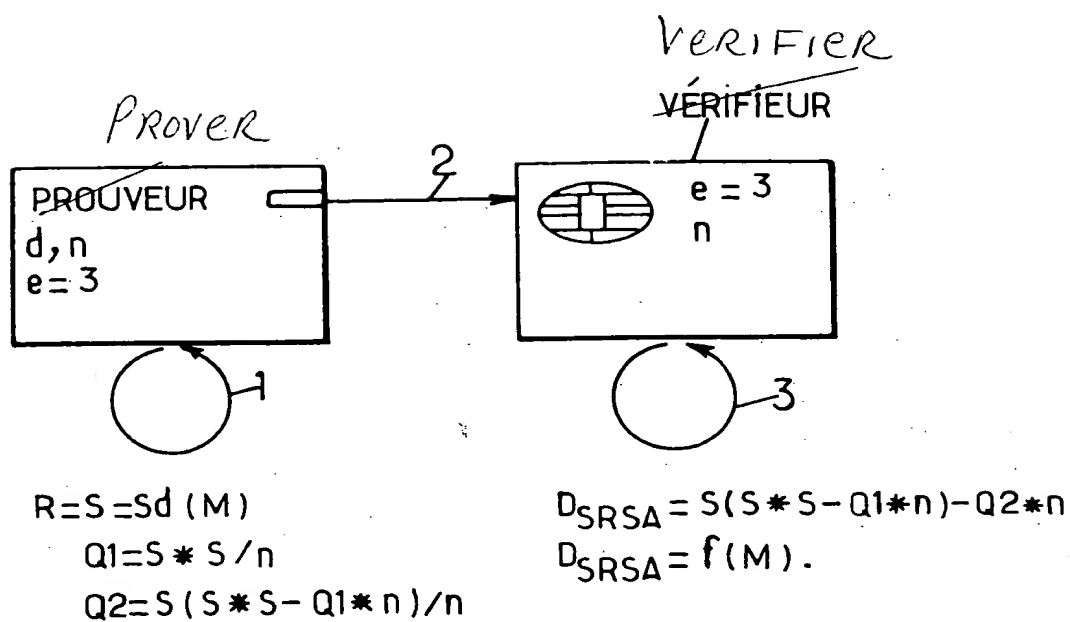


FIG.3b.